



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/763,607	04/19/2001	Cord F. Stahler	100564-00049	3440	
6449	7590 04/28/2004		EXAM	INER	
ROTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W.			PONNALURI, PADMASHRI		
SUITE 800	21,1	·	ART UNIT	PAPER NUMBER	
WASHINGTO	ON, DC 20005		1639		

DATE MAILED: 04/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

1	•
Q	

## Application No. Applicant(s) 09/763,607 STAHLER ET AL. Office Action Summary Art Unit Examiner Padmashri Ponnaluri 1639 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). **Status** 1) Responsive to communication(s) filed on <u>27 October 2003</u>. 2a) This action is **FINAL**. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) Claim(s) 1-23 and 27 is/are pending in the application. 4a) Of the above claim(s) 24-26 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) \_\_\_\_\_ is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) 1-23 and 27 are subject to restriction and/or election requirement. **Application Papers** 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some \* c) ☐ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. \_ 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

Atta	acn	me	nų	S

١		Notice of	References	Cited	(PTO-892)
,	L:	Nouce of	References	Citeu	(F TO-092)

2) L Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date \_

4) Interview Summary (PTO-413)

Paper No(s)/Mail Date. \_ 

6) Other:

Art Unit: 1639

1. The response filed on 10/27/03 and 6/2/03 have been fully considered and entered into the application.

2. Applicant's election with traverse of group I, claims 1-23 and 27, filed on 6/2/03 is acknowledged. The traversal is on the ground(s) that group I method recites that 'the carrier exposure is optionally "controlled by means of a light sensor matrix, in particular a CCD matrix" whereas claim 24 of group II recites "use of controllable illumination matrix ... in a light-emission detector for detecting the optical behavior of the a 2- or 3-dimensional test area" carrying functional materials.' Therefore the two claim group share the special technical feature of controlling light exposure ..... and a controllable illumination matrix.... And the method of claim 1 shares the special technical feature of claim 24 and should be examined together with the claims of group I'.

This is not found persuasive because a) 'examiner has noted that there is no special technical feature linking the group I and group II (i.e., see the office action mailed on 3/5/03, page 3); b) And further the instant claim 1 method recites "the carrier exposure is **optionally** controlled by means of a light sensor matrix." Thus the 'controllable illumination matrix' is not necessary to practice the group I inventions, and 'controllable illumination matrix' is not the special technical feature of group I method; c) and further it is noted the claimed 'method of preparing a carrier (biochip) coated with biologically or chemically functional materials' is already known in the prior art, i.e., see US patent 5,318,679 or US Patent 5,424,186 (cited as 'X' references in the PCT/EP99/06316) (the reference provided by applicants), accordingly, unity of invention is lacking.

The requirement is still deemed proper and is therefore made FINAL.

Art Unit: 1639

3. Applicants have further elected 'nucleic acids' as chemical or biological mterials; and 'illumination matrix arrangement involving transmitted light' as species to be examined in the response filed on 6/2/03.

- 4. Claims 24-26 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

  Applicant timely traversed the restriction (election) requirement in Paper filed on 6/2/03.
- 5. Upon further consideration the following species election is required:

## Election/Restrictions

1. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Applicants are requested to elect a single species for each (a through d) of the following:

- a) a single species of electromagnetic radiation used for the exposure;
- b) a single species of radiation, i.e., pulsating, coherent, monochromatic, parallel;
- c) a single species of illumination matrix, i.e., reflection matrix or transmission matrix;
- d) a single species of carrier surface, i.e., silicon, germanium, gallium arsenide, quartz glass or plastic.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify

Art Unit: 1639

the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

2. PCT Rule 13.2 states that unity of invention shall be fulfilled when there is a technical relationship among those inventions involving one or more of the same or corresponding "special technical features".

For example, unity of invention is fulfilled if:

- (a) all alternatives have a common property; and
- (b) (i) a common structure is present, i. e. a significant structural element is shared by all alternatives, or
- (b) (ii) in cases where the common structure can not be the unifying criterion, all alternatives belong to a recognized class of compounds in the art to which the invention pertains. (MPEP 1850).
- 3. In the instant case, (a) the different electromagnetic radiations do not have a common function or properties; (b) a single type of applying radiation, i.e., monochromtic or parallel would result in different properties; (c) reflection matrix is structurally and functionally distinct

Art Unit: 1639

from the transmission matrix; (d) the different carrier surfaces would result in different properties and structurally distinct substrates. The claimed different species have either no common property or common structure, election of species under these rules is proper and required.

- 4. Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.
- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Art Unit: 1639

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Padmashri Ponnaluri whose telephone number is 571-272-0809. The examiner is on Increased Flex Schedule and can normally be reached on Monday through Friday between 7 AM and 3.30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Padmashri Ponnaluri Primary Examiner Art Unit 1639

Рp

26 April 2004

PADMASHRI PONNALURI PRIMARY EXAMINER